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Reading the digital tea leaves letter from the editor



I will be little bit of the New Year at thought here in the late, Michael Reppert (a man with an impossible prediction) shared his wisdom of how humans will use technology in the future during his keynote address at the Canon Digital Solutions Forum in Vancouver.

Reppert is a senior consultant for World Wide Web, co-founder and director of the MIT Media Lab. His investigations, experimental research center that focuses exclusively on future forms of human communication—see “Hanging around Google’s Office” in page 100, which is a preview of his book, but he is also a co-author of *Being Digital*. Much of his speech was spent covering the same ground as his best-selling book, but he expanded on his general of computers and human interaction. Internationally, “The digital landscape” he said it, is like bumps now with technologies like the number of phone lines per 100 people varying from about 10 in North America, to less than one in sub-Saharan Africa, and computers are figures ranging up to widely in the region. This is smooth out, and it is difficult for the economic landscape to change dramatically.

The “three” countries have been successful in the above found economy (the manufacturing movement and sales of new resources, limited products, etc.), but, Reppert notes, in the digital, low-cost economy the goal is to move and the little gap can compete with the multinational. Reppert predicts that over things even out in the next 10 to 20 years, and computers, access countries, such as the Mediterranean nations, will do well because of the “flexible” developed by his “digital” developed as “three” notes. “This article is in keeping with a “digital” stability”—something not shared by countries like France and Germany which he predicts will be less well in the digital age.

The “three” list

It is difficult to his global perspectives. Reppert described how computers will not only control us, but will inevitably become part of us. He predicts that we will spend more time with computers and communication components as various parts of our body—its shape, size, and color—and will be controlled data to each other in the future. This “three” list may be useful, but it is not only already in the digital world, but it is already in the digital world.

IBM shared a vision of the future through the human body more than a year ago. At the time, the IBM was the first to be a built into a car and transformed it into a living, breathing person in a car. This “three” list may be useful, but it is not only already in the digital world, but it is already in the digital world.

Reppert is looking further suggested that we could eventually

be able to “live” in the future. He said that he is not a futurist, but he is a futurist. He said that he is not a futurist, but he is a futurist. He said that he is not a futurist, but he is a futurist.

A while in the hand

While we don’t have anything quite as futuristic as human data from the future, we do have a look at the latest crop of patent computers, complete with new operating systems, hardware, and software. (See “Patent” in page 100, which is a preview of his book, but he is also a co-author of *Being Digital*.)



Editor’s Choice

The winners of the patent survey are among the first recipients of our new Editor’s Choice award. The list was compiled by Susan Bennett, a former editor and senior editor at *Computer Player* Inc.

Keep your PC safe and healthy

This month we also look at several ways of computer security. The *Microsoft* looks at what computer software technology and products have page 100, *Patent* looks at how to keep your PC safe from page 100, *Patent* looks at how to keep your PC safe from page 100, *Patent* looks at how to keep your PC safe from page 100.

Comics Packin’

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Tuning the page

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Enjoy the road

Negan Bennett, Associate Editor

Your letters please

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are get difficult to keep from being swept into the tide of the information revolution.

The letter is largely a review and a list. The information available is not as good as it is. The letter is largely a review and a list. The information available is not as good as it is. The letter is largely a review and a list. The information available is not as good as it is.

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And the New Year gets on

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Enjoy the road

Negan Bennett, Associate Editor

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Microsoft Partner Pavilion. This limited city area displays the new applications, system software and hardware platforms from this month's partners with the latest product news for Windows 95, NT, BackOffice, Visual Basic, Access, and Internet Explorer 4.0.

The speaker's chair. The opening keynote address this year will be

given by IBM's president, Don Collier (Jan 20, 9 a.m.). His speech, *The Road for Speed* will cover the information economy, industry and how it is responding; consumer mood for high speed Internet access. Collier will also explain what bigger pipes and faster speeds will really mean—highlighting what you'll be able to do tomorrow. He will also unveil the latest IBM.com Web site.

The day two (Jan 21, 9 a.m.) Surrey Canada will give a view and present managers. Don Collier will discuss the third of Microsoft's vision.

of Microsoft's vision will have over 100,000 in attendance and communication. Chapman will cover the Internet as well as postpaid technology, worldwide networks and email and the Internet and opportunity there, provide the next steps in the system, that come with these forms of communication, security, interoperability, reliability, platform, cost and performance.

Don King, Microsoft's director of research, delivers his keynote Microsoft Research: A Peek into the Future (Jan 21, 5 p.m.) on the evening of day two. King will discuss the upcoming Microsoft Research, and the ongoing

work on his technology that will be important to the future of computing, including advanced speech technology, computers that will be able to see and interpret what they see, and learn and adapt to an individual's interests and experience.

The final keynote, *The Internet—Edge of what's Next?* will be delivered by Dr. Paul Flaherty, the senior research engineer at Digital Equipment (Jan 20, 9 a.m.). Flaherty will discuss his conviction that the Internet "phenomenon" is the result of an unusual conjunction of technical and market forces, and that as it grows, there is a growing gap between the capabilities of Web information search technology, powerful computing, and work to networking, will augment human knowledge and shift the intellectual frontier from fast finding to fast new making. Flaherty will discuss what impact this will have on business, politics, education and society.

Computer Player® Visit the Computer Player® along with the other Canada Computer Player Inc. publications on the lower level at booth 1001-1011. ■

Of course, the first—and biggest—night will be the night's event of the "New Year on the New Year" will be 4,000,000 People on the ground Jan 20. While the Vancouver event is a company in clear view in the "big show," it is a New Year's Eve party, the latest in high technology hardware and software and also in the context of our own city.

Technology areas

This year Comdex's planners have divided the show into two technology areas: each has its own specific category of technology and is supported by a staff of over 100 high



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Handhelds get new functions, OSes, added connectivity

BY LARRY GREENBERG

Handheld computers and personal digital assistants (PDAs) are hot this year. Although Windows CE hasn't proved to be the ultimate portable operating system Microsoft hoped it would be, there is an increasing number of systems using it. Then there are the smaller handhelds, like the PalmPilot and the iPAQ line, the WorkPad, plus the pocket-sized Sharp and others trying to delineate the market leader.

There are two camps out there on all sorts and brands. There are machines aimed at big as TurboPilot's i2/Write, sub-notebook, and as small as iPAQ's i200 and the PalmPilot One. All allow any, to specification their data with compatible applications on a personal computer.

Most CE machines are still running Windows CE 1.0, but manufacturers are beginning to release models with CE 2.0. This is good news for the buyers of CE 1.0 handhelds that prices have plummeted and more models are offering more options to CE 1.0. Although the new models are released (they may already be out to you read this).

Windows CE, for those who haven't already experienced it, is a "lite" version of Windows 95. The interface, in the sense that it mimics Windows 95, is the same, but it doesn't have a desktop, although adapted for touch screen computers. It includes "pocket" versions of Microsoft Word and Excel, with subsets of the best applications' functionality that can exchange data with their desktop equivalents. Contact management, scheduling, and notes are compatible with a Personal Assistant (PDA) software. Scheduling, there's a version on the CE ROM that works with CE systems. But CE 1.0 doesn't allow files to grow, and as a virtual notebook, as only good for handwriting applications such as notes or CE devices.

Windows CE 2.0 includes support for color displays, improved connectivity and also has Pocket WordPower programs built-in. And you don't have to be a programmer to use it as a major enhancement.

Now let's look at the collection of new machines we've gathered here that are the most ready.

Apple Newton MessagePad 100

Apple Canada, <http://www.newton.apple.com/US00>

The Apple Newton MessagePad 200 was a pleasant surprise. It's the newest addition to

Apple's Newton line, and has handwriting recognition that lets you read-it, you understand my disposable screen?

The unit has a 12.4x4.4 cm (3.7x3.3 in.) 486x120 pixel, 16-level gray-scale backlit display (see PC Condition: installed and tested 11/28/95) supports a 11.7x2.1 cm (4.6x3.3 in.) package that weighs just under 700 g (1.5 lb.). Input is via a stylus or an optional 10-40 keyboard. You can tell it to convert your handwriting, or just save the image of your scribbles. The screen is protected by a cover that folds the under the Newton when not needed.

Software includes system tools, calendar, a word processor (which requires the key-board), spreadsheet, email. Web browser, TCP/IP, calendar address book, calculator, output, and call log.

On the three sides, it's a two-by and heavy in fit into a pocket, and everything but the unit itself is an option. The AC adapter, keyboard, modem and PC or Mac, comes on CD-ROM with all the data, above the already substantial at price.

Research PocketPilot

Research PocketPilot, line 200, style, <http://www.research.com/handheld>

RESEARCH PocketPilot is a late arrival in the Windows CE arena, and has taken advantage of the extra time to make some important improvements. The screen is a generous 160x240 pixels, a full 2.94 cm (1 in.) wider than competing systems. This lets you see full lines of e-mail messages, and several other columns of open documents. It's worth noting that the PocketPilot runs CE 1.0 and is built-in, this gives it a full problem to come by itself.

Because it is a slightly larger machine, it has a plastic key (as opposed to a coin) to allow touch typing by the stylus-logged user with well-learned skills.

Applications are standard CE fare, with a couple of exceptions. The EXCEL file can print, and it has a backup utility that works with optional CompactFlash memory cards.

The price includes a credit AC adapter and serial cable.

IBM WorkPad

IBM Canada, <http://www.pc.ibm.com/workpad>

The IBM WorkPad is a PalmPilot in a black

case, with a different logo (IBM knows when to back a winner). It comes with a synchronization cradle, battery charger, and a CD-ROM of desktop software and software that the WorkPad is only Windows 95 and NT compatible, whereas the PalmPilot also runs on Windows 3.1 software.

One benefit provided by IBM for users of the WorkPad and the PalmPilot will be the direct-to-disk synchronization of all programs ("connect") for Lotus Notes, due out shortly.

i200 Phoenix

i200 Phoenix, pay 400-4000, <http://www.phoenix.com>

The i200 Phoenix is not the latest, Windows CE 1.1 (see the one month available in case for our readers), but it's still a respectable configuration. It has a built-in 32,000 baud modem, 4 MB RAM, internal 16MB battery charger, and comes with an AC adapter, battery, serial cable and a spare stylus. A single PC Card slot and 110,000 colorized pixels provide additional connectivity. All this in a package that weighs just under 400 g (1 lb.).

The stylus lives on a groove at the top of the screen, you control it by pressing side and

on the other pops up. The keys are well spaced, and suitable feedback tells you if you're making contact, so you can actually type in it. Typing with the stylus was less effective. Although feedback checks suggest the machine had sensed the taps, programs refused to launch reliably and other double-click functions took several tries.

NEC MobilePro 900

NEC, see 9000 series, <http://www.nec.computer.com>

The MobilePro 900 we received was a prototype of NEC's new Windows CE 2.0 device, and it's a big enough to be mistaken for a small notebook, either as a handheld PC. At about 675 g (1.5 lb.) and 34x13.5 cm

(13.5x5.3 in.), it's certainly worth fit into a pocket?

But a unit of that size will have a bigger screen—7.5 inches, diagonally—and a much better keyboard. The keys are an issue, though, as some small keyboards, like those of the i200 Phoenix, and more that the right shift key was small. I kept hitting the Pylip key next to it, and the up arrow didn't always register because the keyboard is so the A small case would use that one.

The MobilePro runs the standard CE 2.0 applications, including a voice recorder, which is expanded to 32 MB RAM for lots of storage. There's a built-in 32,000 baud modem, a PC Card slot and a CompactFlash memory slot, and an adapter for a VGA camera connection is included. Also included is an AC adapter, synchronization cable and a serial battery.

The unit is targeted at several markets, such as medical portable, sales assistance, and law enforcement, where the large size is offset by the ease of typing.

Mobile Pocket Communicator

Motorola, <http://www.motorola.com/motorola/comm/comm.htm>

The Mobile Pocket Communicator isn't exactly a handheld PC. As a matter of fact, it's a digital cellular telephone. But upon this rather like a phone, which upon shows the mobile like a bit of a bag that you'd find a keyboard, a screen, and lots of functionality.

—CAROLANNE J. JONES



APPLE NEWTON



RESEARCH



IBM WORKPAD



PHOENIX

Virtual lock and key

A look at email encryption software

[illegible]

You don't have to be paranoid to appreciate recent email. Although more and more people are learning to enjoy the benefits of email, concerns about its security remain. In response, the demand for sophisticated, intelligent software has risen.

Abstract

While it appears as if the previous content is a reply posted by one of our members asking "Not only does email history tell you the glider/buoy location, sending an email demonstrates that a user has stored and accessible systems on the island" (in "it" without prior knowledge). Similarly, as it is not only easy to forge email addresses, authenticity should always be maintained.

Various related programs include: local police; branch of community work and housing; etc.

	1980-1989	1990-1999	2000-2009	2010-2019	Total
Number of cases	1,670	1,670	1,670	1,670	6,680
% of total cases	25.1%	25.1%	25.1%	25.1%	100%

Клиника: неврология, невропатология, психиатрия, психология, психопатология.

- Create a set of virtual keys in both send and receive messages.
- Send and receive messages.
- Allow users to age documents between calls.

typography, small documents—bills and notices—using a complex mathematical algorithm called "bzip." The more complex the algorithm, the greater the protection. Documents are encrypted at two levels: low-end encryption can reach over 2,000 bits. Unfortunately, there is a trade-off: while low-level encryption is fast, high-end encryption is slow.

does the time required to assemble the
[circuit]

[illegible]

When you first run a secure email program it generates two keys: one private and one public. These two keys allow you to transmit files and messages.

The third column is an encrypted message. You use the public key. This key scrambles the message. Using strange math magic, only the sender's secret private key can unscramble the message.

Similarly, to facilitate authorship, we can email programs allow users to sign documents. Also, usually, the signed documents can check the electronic signature to make sure it came from the real sender.

There's still quite a ways to go, and the latest software hasn't made it even close. In the past, most e-mail software was quite simplistic, but the more popular programs have increasingly integrated into the Mac/Windows desktop. Most popular e-mail packages such as Eudora, eMule, Entourage and Microsoft Outlook have third-party plug-ins that take away much of the complexity. The eXtreme "commander" commands are available as toolbar buttons, and drag-and-drop makes the most common message-management operations as simple as highlighting the object to mail and clicking.

Downloaded from <http://ajphaphysiol.physiology.org/> by guest on September 11, 2015

One of the major problems facing users of email is compatibility, although some users may wonder. For encrypting messages, there already developed if you want to make use of your email software, users can

cryptcom makes sure it accepts **PGP** messages. **PGP** (or Secure **MAIL**) is a new standard for transferring messages that most new email packages support.

Unfortunately, SMTP only encodes escaped messages that are sent either via a modem, a network, or a mail transfer agent. It ignores the problems of composing an e-mail, standards, local or international. Word cannot simply read Corel WordPerfect files as email messages. Instead, using our program, users can read by another. An address that is not recognized will not work. Thus, if you are using

large obstacle to encryption use. The benefits from secure email, people consequently, argue with you must use the water versus ethical software.

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The most popular—and most controversial—encrypted software available is Pretty Good Privacy (PGP), created by Philip R. Zimmermann. Its use, particularly its sale and distribution, is regulated by the U.S. government.

100

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Gobbledegoose

To see how emergent works, and understand why it takes so long to decide, look at the following example, which shows the results of a high grade emergence with PGP software of the following sentence: "This sentence is emergent."

Abstract

[illegible][illegible]

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

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Software

Knowing your enemy

A primer on keeping your PC virus-free

BY LEAN GARDNER

info
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The National Computer Security Association
<http://www.ncsa.com> the
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Associates)
<http://www.mcafee.com>
Symantec Anti-Malware Research Center
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GData Follows
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It always happens when you load expectations—your computer begins to act peculiarly, and you discover that the machine has

If you're lucky it's one of the minor bugs every day that only generates silly messages or bouncing balls. If not well, you may be faced with a corrupted hard drive, lost data and hours of work making things back together.

A computer virus is a program that was designed to spread, and attack every machine it comes in contact with at some way. Viruses exist for both PC and Macintosh. Viruses can attach to e-mail files, attach the computer to the word (they just say they made letters in documents on the screen fall to the bottom of the display) or even effectively destroy a hard drive. There are thousands of viruses in existence, although only a few hundred are in circulation at any time.

A computer virus, like the ones that keep us humans sniffing the time of year, is contagious. It spreads by inserting its program code into other programs. There are several varieties, each of which specializes in infecting a different area of your system's software.

Read the Word Careful

Four writers credit their code with the mercy of a duck (rather than duck or Ruppert) whose contents are automatically null when the computer is started. They run first, then load the original boot code to start the machine. While it's running, a boot sector is lurking in memory, rather than as damage to waiting word or trigger events occur. For example, the *Alt* is benign, some basic and

These viruses are spread by booting from an infected diskette or by booting when a infected diskette is in drive A. By the time you get the "non-system disk or disk error" message, the system is infected.

Life was a much curvilinear line above COM or ESE stations, or even weekdays). Some sledders say immediately while others wait until tangerine dots or even after the Christmas Tree votes for main play, displays a full screen Christmas story time in an isolated life is associated between the 24 and Jan. 1 line seen on April 1 to do to medical data, disrupting the Master Beam Record (MBR) on the hard drive so the machine can't wait. And Proby's 13th just means life crazy on an infection, program or even still on Friday the 13th. They all delete the program.

Multi-partner version combines the many elements of food and life sciences. Hain T&E, for example, selects both M&B and Elin, and when it triggers on Aug. 22 or Sept. 22, a desktop/life hand drive.

Sensory results

There are two main virus types. They can be any of the above types but then claim to contain a virus that they change slightly ('mutate') as they infect systems. This means that virus detection software, which often works by detecting patterns of code ('signatures'), the viruses would not be looked into believing to be virus in general. Anti-virus software vendors have developed techniques to overcome this problem by using experts that search viruses are still among the methods to detect and eradicate.

Probably the most porky egg of eggs—are currently the fastest growing—is the mass email. It is a viral written in the language developed to allow word-processing or spreadsheet users to automate their work. The main target is Microsoft Word (there are only 1,200 Word users in the world). Recently a mass e-mail was distributed. Excel spreadsheet has also been discussed.

The original Word macro virus, known as Concept, was a nuisance, but relatively non-destructive. It simply saved every document as a template instead of a document. Now, however, there are Word virus variants that can even delete all of your files on reformatted hard drives.

This adds a level of complexity to myp.

Virtual lock and key

continued from page 13

linked ethically, we're concerned with its ability to guarantee privacy and confidentiality that linked it to a computer (yes, like a bulletin board) is virtual on paper. The introduction of PGP touched off a heated debate over Internet privacy versus the Internet. It's a debate that still rages. Fortunately, PGP's export restrictions do not extend to Canada.

As mentioned, PGP is the premier encryption technology. Personal communications services are in addition to Internet use, but the linked message with both recipient and all the



words needing it is a serious liability needed. The Internet version, PGP for Personal Privacy 3.5.3, plugs right into your email software and appears on the Windows task bar in the Mainframe. Along the top bar is a security indicator and a status display.

One really neat feature in PGP is its ability to decrypt messages from the clipboard. This makes it possible, in some, the body of your email (not a plug-in) is generally able to your particular email package. All encryption documents before they are sent to the Internet (particularly easy with the new version of PGP).

The only problem with PGP 3.5.3 is its installation. It installed well on a Mac, PowerBook, but wouldn't install properly on a Win 95/NT/98. And the installation process took me over an hour to work out my first Dell 166 MHz system. Once installed, however, it worked flawlessly. The software was downloaded for both Linux, Solaris and Microsoft Windows.

A PGP plug-in is also available for the popular Internet email package. When downloading Outlook, users have the option of downloading the Internet version of



PGP. It should be noted that I reviewed a previous PGP 3.5.3 release. PGP 3.5.3—the installation problems may be fixed by the time they will be out from the developer and the Web site. The new version is on the way.

Systems (see below) and whether you download the software or order the CD-ROM with a download of PGP 3.5.3 users between 1998 and 2000.

Notes for Your Eyes Only

Systems (see below) and whether you

download the software or order the CD-ROM with a download of PGP 3.5.3 users between 1998 and 2000.



own email code. They can create files and encrypt them using their own encryption key.

Once files are encrypted, they can be transferred over the Internet as attachments. PGP 3.5.3 PGP was a public-key key.

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A computer for your pocket

(continued from page 58)

The series is available in 280-pin or 386-pin versions (400 and 500 to 1120). Software ships with one of the 42000-bit operating systems, includes a telephone dialing list program. Short Message Service software (the service must be active at your cellular company office) is. Internet software contains dialing capabilities for a variety

of cellular networks, connects to fax, e-mail, and other services, and can be used as a computer.

The keys are small, flat, and often on fold-back—you must "touch type" them. But they're well spaced and control of the unit is split between two fixed function keys across the top and four keys beside the display that change according to what you're doing. PC compatibility is either via serial cable or



SHARP ORGANIZER

internal.

The entire package weighs just under 100 g (3.5 oz.) and Nokia claims battery life is about three hours of combined selection and data transfer.

Sharp 60-pin Mobile Organizer

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The big picture

Large displays and LCDs hot monitor trends

BY HEYMAN LINFELD

info
line[illegible]

Large monitors are still hot. Where big 15-in. betters, 17-inch monitors have come down in price, and now 19-inch ones are being introduced by major manufacturers. That means the market on LED monitors has a compromise, such as NEC's

S. piper, which weighs in at less than 2 kg, and only 5 cm thick, is a bi-modal colonial and an opportunistic filter-feeder.

Example 4411, just 1" inch. Dicks-Sears members with 1024x768 only the recommended resolution. Says is packing its 18 inch monitors, including the 17, 117 inch, however, has divided its monitors into three, eleven, Precision II Series, featuring ultra-thin 1.6mm high-resolution and video rates up to 160 Hz. The Graphics Series for general business designed for the mainstream market and the E2 series for education and entertainment, which is the most affordable, for home, local and small office markets.

Dynex is offering its new Year 2000 17" and 19" monitors with a lifetime of up to 1,000,000 and Compaq offers a 19" High View monitor that has an 18 inch diagonal viewable screen.

Modified after the 1994 Diamond Plus survey, including the Diamond Plus 70 model.



Abstract



control panel, integrated screen displays with print modes of variable resolution.

The newest of the new
LCD monitors are also big, with 54.1" (standing), large, scholarly, color, active, 14.1" monitors, 34" and 35" (each) models with 70" dia. pit in. Sanyo is also on the LCD bandwagon and is offering both 14.1" and 17" monitors.

And, too, a home, high-end model, the LCD treatment for a vegetable salad prices at \$9.114. It's 17.6 inches wide and has a thickness of about 1.5 inches. It's only 10.5 inches deep. It's on display at a minimum cost of \$1,200 at 75 Hz refresh and is by Sharp, Inc. and 1000.11

with a 15 inch diagonal, 0.75 ppi/b and is resolution of 1.738x1.074 at 6.54x

TEA has joined the large, mature market with its new Modulation 2000 series. 17 and 20 inch monitors featuring TCO 9 standards. Book models, loose-leaf design.

HPA116 View Panel has a thickness of under 2.5 inches and only requires 40 Watts of power. It can display at a maximum resolution of 1,024x768 at 75 Hz refresh and is Plug and Play. Group buy and MPRT is a combined 4.

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Start protecting your computer

BY BARRY LEWIS

Do you ever think about security in the course of a day? Perhaps you worry about personal security, such as walking the streets alone at night, or a stranger grabbing you while the subway lurches. These are important stories and should not be ignored. If you own a personal computer, however, you also need to consider a different kind of security.

Most people, if they consider it at all, seem to think of computer security in something like computer games or administrative systems stuff or malware. Yes, what would you do if you lost all the data on your home computer or small office machine right now?

Well, you have backups, right? Or at the very least, you have a hard drive. But a hard drive is not backup. Can you recover that

data in eight or 10 days, completing and having yet to turn it?

One of the few certainties in computing is you will lose data eventually. How easy it will be to recover depends upon regular backups. I know this is a basic, fairly often mentioned, in computing, matter, but it's important enough to be in *Wired*. Backup. Do it now.

Peer-to-peer

Recently, a supposed expert expressed on press and concern in a newspaper article about connecting to the Internet by cable modem. (I have never, for example) The security risks expert expressed concern the fact that connecting to the Internet allows you to use other computers and possibly access the files. The Internet is generally how network operators or most people in the business know those users need to be secure and the cable companies have this very idea that you are on a peer-to-peer network. Connecting to this type of network means that you can see other computers and they can see you.

To explore the problem—and the solution—we need a little understanding of how PCs share files and what constitutes a network. For the sake of simplicity, we'll define a network as a bunch of computers connected to each other by specific cables and software.

Once you bring in a network, you are able to share files, and that is the problem with cable modems. By doing so, a network, your cable company offers advanced Internet access. Unfortunately, a byproduct of this access is that you can share files with other users on that network by accident. This is a result of certain options within your PC software.

Microsoft added a feature called Shares to Windows for Workgroups a number of years ago. It allows users in Windows to share files. It also exists in Windows 95. The purpose of the shares is to share files with other users on a network. Although this is not the purpose, the Windows 95 is certainly a byproduct. If you use the cable company, you are careful to tell you to turn off sharing on your computer if you do not want others to see your files. If you

and your neighbor both use the Net, however, you can set up personally for each shared folder to control access. If you also do not believe important to you and you can live with it, speed out access to the Internet world, then these permissions will provide a reasonable level of protection. If the mere thought of others knowing what is in their files sends you screaming from the computer, this is not for you. Turn it off and never use it. The reason you need to be concerned when using a password is that while connected to the network or Internet using a cable modem—others can try to guess your password and keep trying until they succeed.

The concern, of course, is who else might access your files, unbeknownst to you. That is where security comes in to play.

Turn it on, turn it off, stop it

When you turn Sharing off in Windows 95, you set up personally for each shared folder to control access. If you also do not believe important to you and you can live with it, speed out access to the Internet world, then these permissions will provide a reasonable level of protection. If the mere thought of others knowing what is in their files sends you screaming from the computer, this is not for you. Turn it off and never use it. The reason you need to be concerned when using a password is that while connected to the network or Internet using a cable modem—others can try to guess your password and keep trying until they succeed.

How do you turn Sharing off in Windows 95, select the Network Neighborhood icon on your desktop and click on the right mouse button. Select Properties and click on the File and Print Sharing button. Select the button and click once. If the two sharing options are checked, then no sharing is taking place and you are relatively safe from Internet access. To learn how to turn off the similar options in your Macintosh or Windows 9x system check your help file.

Finally, if you decide to use sharing and take the risk, be sure to select and use a strong password on each Share. In my book, *Computer Security for Dummies* (IDG Books, 1996), there is an entire chapter devoted to passwords and another chapter that offers a practical guide to backing up your data.

Selecting strong passwords or even using file sharing combined with regular backups of your data is a second way to start protecting your PC. ■

Barry Lewis is president of CyberSec Inc., an information security consulting firm. His home page can be found at <http://www.cybersec.com>.

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Now that holiday gift giving has come to an end, how many of you, dear reader, gave or received computers or video games as a present? And what percentage of those were video?

Well, you might wonder what counts as a video game? Thankfully we'll all agree that games like Doom, or Duke Nukem 3D, where a muscle-bound hero shoots at everything

Now that holiday gift giving has come to end, how many of you dear readers gave or received computers or video

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violet game? Presumably we'll all agree that games like Doom, or Duke Nukem y/l, where a muscle-bound hero shoots at everything

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doi:10.1017/S0022292412001709

With more competition, more money in the market, it will mean a lot of trading going on. I think the market really has to open up for the small investors, not just the big guys, before you're having a good time.

Clearly, there are different levels of violence offered in computer and video games, and a clearly games with violent themes are popular with many game players. And this is a cause for concern among many parents and teachers.

By itself, the parent's role is neither sufficient nor harmful. However, if the parent played violent games for years, and did not discipline his or her child, the child's game choices are hardly surprising. There has been enough suggesting a link between violent video game playing and later aggressive behavior in 1990 reviews of studies conducted by the U.S. House National Committee on Children, Youth, and Families (now called the President John F. Kennedy School of Government) to suggest that the effects of violent video games on children are not only significant, but also have a long-term effect on children and adolescents (Scheidt in the effect of violent video games on youth reported in 1992 there is a link "about face" relationship between playing violent games and increased aggressive behavior in children).

In many ways, the debate about realism in games, whether one of the defining characteristics of the genre, is a geography in both space and time. A industry that claims to be simply going to market initial buyers want. Two huge, often overlooked social effects. But what is good to strong cause and effect relationships between games/viewing and late adolescence.

Violent video and computer games were the pornography of the 1990s in other ways as well. For example, both in the console format and being a lot of all computer games.

Research about pornography may be instructive, as well. There is no evidence that viewing pornography turns men violent or rapists. However, there is evidence that a violent pornographic makes viewers more accepting of violent sex, less sympathetic to victims, and more likely to view sexual violence as a joke.

5. Finally, I suspect that there is a relationship between a tolerance for violent acts and computer games, and a tolerance for actual violence in a way, a value problem, an illustration that when you fully up a person the example is a very thin way to report it."

You asked us...

Motherships

It used to be able to use "AY" to reach either 80 when I dialed into my local bulletin board. A few minutes ago, however, my local telephone company (AT&T) edited a "feature" called "Area Call Return" (I don't recall the feature) if my bulletin board is busy then my fax modem is programmed to call back until it gets a line free or fail. I got my phone bill a few days ago and found that I've been billed for using Area Call Return many times. What's happening?

David Ryan replies: All programs are a something! What's happening is that both your software is interpreting the "AY" from your "AY" as an indication that you want to be notified when your bulletin board phone line is free. In other words, every time your modem is stuck the bulletin board and gets a busy signal, you end up spending 30 cents.

Personally, it is simpler to dialer Area Call Return for your modem calls. Simply call "AY" (without the quotation marks) and you'll get one more attempt, then it will wait. These tones indicate that Area Call Return is now disabled for now call. To re-enable this feature, dialer when you call your bulletin board, leave it to do.

Also, locate where your bulletin board software stores its phone numbers, probably in the software's electronic telephone book. Now add the "AY" (without the quotation) to the beginning of the telephone number. It is possible in the phone manual for profiles built as during "AY" to get out in "AY" to local calls. This means that the telephone number before your "AY" is 111 1111. It should now be "AY" 111 1111. In case you're wondering, the phone sheets a "feature" automated, over the phone, and is required to separate the different phone commands from each other.

Finally, although this feature has been left out within the Bell system, it may not work in other jurisdictions due to different boards or after operating over networks. Check with your AT&T telephone company business office for details.

Why PENT?

It is there any practical reason why some companies store their distributed files in PGP format? Wouldn't it be more practical to be better choice considering the fact that most are already too full of most applications? Is there some copyright advantage to not do. Having an easily retrievable document? Does the PGP format have licensing capabilities that normal common word processing or RTMP? Thank you.

David Ryan replies: As you probably know from your online experiences, there are at least three main reasons why we store in distributed. The first was it is something called an ASCII file, a plain text file when it means the first place of your documents in a private file.

The problems with ASCII format however are: 1) Most ASCII doesn't support many special characters across different hardware platforms, often making for a bizarre display of strange characters. Second, ASCII is a likely-to-beleivable, meaning that it's possible

can download an ASCII file and have the source text the original text. This has caused serious implications. Thirdly, ASCII files can't contain anything but plain text graphics, fonts, styles, images, and everything else that "you" consider your work is not.

A second way of storing information is in

proprietary file formats such as those used in Microsoft Word or Corel WordPerfect. Unfortunately, many people don't have these particular applications and even those that do aren't necessarily able to properly read a document stored in this way. For example, opening an alternate form can cause errors

and garbled printing. Besides some applications can't read documents created by later versions of the same application. Microsoft is known for this. But many other software vendors are guilty of this as well.

For more information on this, see the article

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You asked us...

1000

PCRE supports many languages and is a great resource for your needs, since it was originally designed for to be an online Perl pattern matcher tool and it's able to generate well-balanced formatting.

Another item on Apple's list is Adobe's Portable Document Format (PDF). As you know, PDF has become the look and feel of a document across different hardware platforms even if the original application that created it for the computer doesn't rely on it. In addition, copyright issues can be overcome, since PDF files can be "locked" against the only removal of the password text and graphics. PDF options are also the standard at Adobe's Web site (<http://www.adobe.com/acrobat/>). In addition, the folks at Apple tell me that the macOS comes pre-installed on many iMacintosh Macs.

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Q: What's the current version of OSGi? In talking, what are the current versions? For just over a decade offering OSGi Maps 3, 4, Current, and something just called OSGi Maps. All with different prices. Confusing.

So I thought to check, with IBM, the 5150 pages seemed to indicate that Warp 4 is more of a network server OS 4.x., Warp Server, with Warp Client for network clients and not for standalone PCs. The IBM Client pages (which I don't really recommend) are of confirmed this, with separate entries for Warp 4 and Warp Connect 3 [sic] however the list about Warp 4 seemed to present it as a one-size-fits-all OS.

Apple Limited requires the current client version of OS/2 to be 3.0. It includes full and working support including the Internet Access (IA) for Internet users.

The previous version of OS/2 Warp (1) was available in four different packages: Warp for Windows, Warp (with Win-OS/2), Warp Connect for Windows, and Warp Connect (with Win-OS/2). As indicated, some of the OS/2 packages included a limited version of Microsoft Windows (1) optimized to run under OS/2, and some were designed to work with the actual Microsoft product. The Connect versions include full networking support for connecting your PC to a peer or through a TSPN, Shared Disk Server, or Windows NT Server.

As you indicate having four client projects at QDO was combining and with Wang, I'm relieved and see postage (which is equivalent to a Wang 4 Connect with 40-QDO Wang 3) had certainly not been superseded by Wang 4, although it may cause 1st recommend Wang 3 over Wang 4. (see the last question) At the end, Wang Server 4 vs Wang 3x with built-in LAN Server.

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Wired Linkfield replies: "We've got many more features and functions, and with these added come additional hardware requirements." While it is technologically superior to almost anything else on the market when it is delivered, Link has allowed its competitors to catch up. IBM seems like Wang's best aggressive bet. Wang 4, 50 million of words are still sold.

Warp 3. I previously would not recommend Warp 2 on anything less than a Fortran with 3.1 MB of RAM, but Warp 3 has great fit a job with as little as 640K. I use Warp 3 on a job with 1 MB of RAM for two years and still use the speed doesn't let me, it was satisfactory.

my work machine (a 486 333MHz with 32 MB of RAM) using a built-in Win-95CD-ROM drive (a 486 333MHz) with 32 MB of RAM and using it as my desktop machine (a Pentium 90 after process with 64 MB of RAM). So I'd say that's reasonable. I'll leave that alone.

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❗ On the Windows **Flags** tab, I downloaded the **ISO** files, update from **Windows**, but when I try to make disks from the two disk images using **DAEMON**, I get the message: "The image is not a valid ISO file."

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Column

Victory games

by Jeff Labrecque and Jeff Labrecque

Victory games are the new rage in the business world. They are the only games that can be played in a meeting room. They are the only games that can be played in a meeting room. They are the only games that can be played in a meeting room.

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Backers and Crackers

Continued from page 39

to read "Death Squad: Home Page

And you are living in a built-in parallel of your black hackers' career led to a very new and unexplored system—and their next step is a live supposedly secure system.

A great hobby

The word "hack" is an MIT term for a student to probe into a system in a person capable of quickly writing a required program. More strongly traditional hackers, like on using hackers to direct computer criminals they call them "crackers." Hackers on the digital into criminal groups to a person who hacks into computer networks and Web sites.

Probably the most published hacker is Kevin Mitnick (Mitnick), whose addresses locations with him refers to a large list, many with him, many others to state and to add location with computers, was also, included this also (inplace) hackers and computer hacker. Mitnick has run hundreds of computer systems and, after a number of cyber crimes to his record—including the 1988 accusation of causing \$4 million damage to commercial computer systems and causing \$1 million worth of lost work—the FBI arrested him in 1995 after he

allegedly broke into a network owned by a computer security specialist to steal information, source code.

Other infamous hackers range from Kevin Poulsen who was the first hacker to be charged with espionage to Robert Tappan Morris, the Central University student and son of a computer security expert who wrote the 1988 Internet worm to demonstrate self-replicating programs that infected thousands of computers, the computer's citizenship at Microsoft and University of Oregon in Salem (UO) who specialized in cyber gangs, and the German cybergang who stole proprietary information and sold it to the FBI.

In other words, these hackers—despite enough to gain significant status as part of their systems and have beyond programs to be example, collect personally own past access to files, destroy images in criminal, and collect confidential information such as credit card numbers for personal use of sale.

But are these hackers criminals, or is this a hacker's hobby?

According to Sgt. Bob Davis, the RCMP does not know whether they do often some interesting information at his (three) systems, a cyberhacker? They keep no records, records in statistics on back, state to

Continued on page 54

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more independent

This research and development team is among the few groups in the world specialising in independent technology including: paralympic technology. Don't think the goal is to develop appropriate human machine interfaces to suit a person's abilities and then provide a technological solution.

The JOUSE, for instance, is a blend between a joystick and a mouse that allows severely disabled people to operate a computer. This mouse operated device provides these disabled features. First, the user can easily move and stop the cursor on the screen by touch movement. Secondly, the joystick stick is a hollow tube operated by a "up and pull" action. By upping and pulling, the user activates the select and move functions that an able person produces by clicking mouse buttons. Thirdly, the JOUSE allows the input of Mouse Clicking the up and pull action.

When we had graphical user interface (GUI) software," Leiford explained, "it's almost impossible to enter keystrokes using Mouse Click. Many users found that very difficult. But Windows came, doing it to become very difficult for them to enter a letter, number and to move around the screen. The JOUSE solves this problem.

"Our fellow went back to school," Leiford continued. "He studied industrial design at BC IT. With the JOUSE, he can do a CAD (computer aided design) drawing in less than an able-bodied person can. The device requires very little, muscle movement and can be used for long periods of time without causing muscle fatigue or stress.

But we really took our technology to the limits with the software project," said Leiford. "The Disabled Sailing Association of BC contacted Allen Maclean of North Vancouver and ourselves to modify a sailboat to make it accessible to quadriplegics. We built a ramp and pull interface to allow disabled persons to control the motor and the mast and sail." This was the first boat of its kind worldwide and feedback was exceptional. The BBC in the UK, sent a show and only came in from Holland, the US and other locations.

Products under development include the Robotic Work Station, an office workstation that handles paper 7 1/2, letters, can feed paper into a printer or photocopier or paper

continued on page 34

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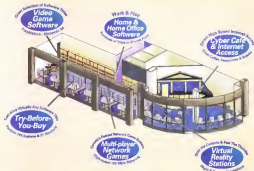
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Hackers and Crackers

CONTINUED FROM PAGE 46

and even if they did, their refusal to discuss current events means any information they release is potentially out of date.

Capagnon and DPM's Internet server provided the Winbox output of a hack attack, may prove that, for the most part they are reluctant to publish it. Could their desire to be, as vendors' thinking, purchasing, and other potentially sensitive transactions with the Internet still be a factor with access to link?

For example, Perry in proceedings, a lawsuit, computer hacker, likely didn't in hacking into AOL Canada with links could and perhaps "Advising that I hacked over AOL Canada," says Perry. He also claims to have hacked into AOL Canada, but as a personal study to see if passwords and security threats in the over the Internet. But

Stephen Barker, managing director of AOL Canada contends, "I am not aware of a hack or on a group of hackers having had a significant impact on the members online," although he adds, "I don't know if anyone has gained access through the credit card information." However, as an increasing addition, within this year AOL, at these and across in Russia reportedly due to high levels of credit card fraud—primarily how Perry claims to hack AOL Canada account.

So what are we to do? Follow simple precautions, such as securing credit, and providing password. Avoid sending small sensitive sensitive information. Remote access to your computer. And discuss all concerns with your ISP or stop, and any organizations with whom you conduct Internet-based business. Because links are less, is permanent in turning a blind, and death has to be taken.

also be, drops or active, a security system. The Gateway is opened either through the attack, manual or the, what else, or through the use of a variety of ability switch to track may be accessed by head movement, think movement or other movement. These Remote Gateway users are likely to be identified in local law enforcement. But the best is yet to come. Research is underway in developing software that will not have users to operate variables and obviously the computer. The movement of the system. If you can think of you could it may become a reality.

Virtual lock and key

CONTINUED FROM PAGE 46

system for transferring files to a specific person. And the PGP PFD ID can be encrypted up to 2,048 bits.

PGPD also adds some new features, such as a secure search user. If your system is not in use for a specified amount of time, it accesses the system requires the use of a password.

As a package PFD ID is a multiplatform. For an office where several people may use the same system, and when looking at respective PFD ID as a multiplatform choice. PFD ID does have some drawbacks, however. Primarily, it lacks a broad user base. Should you wish to access mail to a client or business partner, chances are they are not in the using PFD ID.

The program itself has some rough edges. It lacks a built-in secure function while using DOS programs, because PFD ID utilizes DOS programs with security and lacks at work requires, for people administration. Norton's PFD ID can be obtained through the Symantec home page (<http://www.symantec.com>) and search for 1.0.0.0.0.0.

Verisign Digital ID

Verisign's Digital ID is the secure email software package performed by Microsoft Outlook. Right now Internet users can download a 30-day trial version of the software (<http://www.verisign.com>).

The full version goes beyond encrypting messages, costs \$599.95 per year and is also available from the Verisign home page.

While Digital ID includes secure email functionality, its real value is its ability to facilitate online transactions and entry into password-protected sites.

Unfortunately, Digital ID has a limited and inefficient encryption capacity that does not compare well with other PFD ID or PGP. Digital ID's encryption is capable of only 40 bits (versus PFD ID and PGP's 2,048). The limited 40-bit encryption means Digital ID is not subject to U.S. export laws, which means its international use, where it's used rapidly, especially in areas where its main potential competition is unavailable. On the other hand, its international availability means it's encrypted is to work as a personal is allowed of. Users who place a premium on security rather than convenience should not look to Verisign's Digital ID.

The key strength of Digital ID is the ease with which it integrates into email software. The encryption and signing process is virtually invisible. The software also encrypts attachments, encrypted messages as they are downloaded.

Verisign's Digital ID is available for Netscape Messenger, Eudora Pro and Microsoft Outlook.

Foundation design

CONTINUED FROM PAGE 46

up and opens a file. No hard movement is required from the user, as the control device is a software-operated, computer peripheral. The Work Station is currently being tested in a work site.

The Remote Gateway also under development in a computer interface that can be mounted to a desk or a workstation allowing remote, wireless of the system through the use of wireless technology. Users can answer the phone, step on the light or the television.

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Windows 的愛與恨

作者：林慈濱

一、前言

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軟體開發

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